

GENERAL INFORMATION

1. Permit Number	ACT 007/019
2. Mine Name	Centennial
3. Permittee Name	ANDALEX Resources, Inc
4. Operator Name (if other than Permittee)	Same
5. Permit Expiration Date	January, 2002
6. Permit Number	ACT 007/019
7. Company Representative, Title	Michael W. Glasson, Senior Geologist
8. Phone Number	(435) 637-5385
9. Fax Number	(435) 637-8860
10. E-mail Address	mglasson@andalex.com
11. Mailing Address	Box 902 Price, Utah 84501
12. Resident Agent, Title	See 7
13. Mailing Address	See 11
14. Number of Binders Submitted	Two

IDENTIFICATION OF OTHER PERMITS

Identify other permits which are required in conjunction with mining and reclamation activities.

Permit Type	ID Number	Description	Expires on
1. MSHA Mine ID(s)	42-01474	Pinnacle Mine	N/A
	42-02028	Aberdeen Mine	N/A
2. MSHA Impoundment(s)			

File in:

☐ Confidential☐ Shelf☒ Expandable

Refer to Record No. 0004 Date 03302001

In C 0070019.0001 Incoming
For additional information

2000 ANNUAL REPORT		Centennial		ACT 007/019	Page 2
3.	NPDES/UPDES Permit(s) (water)	UTG40008	Centennial Mines	April, 2003	
4.	PSD (Air) Permit(s)	DAQE997-96	Centennial Mines	N/A	
5.					
6.					

CERTIFIED REPORTS

List the certified inspection reports as required by the rules and under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX A to this Annual Report or currently ON FILE with the Division.

Certified Reports:	Reports Required?		INCLUDED or ON FILE w/DOGM?		Comments
	YES	NO	Included	ON FILE	
1. Excess Spoil Piles		XX			
Refuse Piles		XX			
3. Impoundments		XX			
4.					
5.					

REPORTING OF OTHER TECHNICAL DATA

List other technical data and information as required under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX B to this Annual Report or currently ON FILE with the Division.

Technical Data:	Reports Required?		INCLUDED or ON FILE w/DOGM?		Comments
	YES	NO	Included	ON FILE	
1. Climatological Data		XX			
2. Subsidence Monitoring Data	XX		XX		
3. Vegetation Monitoring Data		XX			
4. Raptor Survey		XX			
5. Soils Monitoring Data		XX			
Water Monitoring Data					
First Quarter Report	XX		XX		

2000 ANNUAL REPORT		Centennial			ACT 007/019	Page 3
Second Quarter Report	XX				Samples Lost, NOV Issued	
Third Quarter Report	XX		XX			
Fourth Quarter Report	XX		XX			
7. Geological/Geophysical Data		XX				
8. Engineering Data		XX				
9. Other Data						

LEGAL, FINANCIAL, COMPLIANCE AND RELATED INFORMATION

Changes in administration or corporate structure can often bring about necessary changes to information found in the mining and reclamation plan. The Division is requesting that each permittee review and update the legal, financial, compliance and related information in the plan as part of the Annual Report. Provide the Department of Commerce, Annual Report of Officers, or other equivalent information as necessary to ensure that the information provided in the plan is current. Provide any other changes as necessary regarding land ownership, lease acquisitions, legal results from appeals of violations, or other changes as necessary to update information required in the mining and reclamation plan. Include any certified financial statements, audits or worksheets which may be required to meet bonding requirements. Specify whether the information is currently ON FILE with the Division or included as APPENDIX C to this Annual Report.

Legal/Financial Data:	Report Required?		INCLUDED or ON FILE w/DOGM?		Comments
	YES	NO	Included	ON FILE	
1. Department of Commerce, Annual Report of Officers	XX		XX		
2. Other					

MINE MAPS

Copies of mine maps, current and up-to-date through at least December 31, 1998, are to be provided to the Division as APPENDIX D to this Annual Report in accordance with the requirements of R645-301-525.270. These map copies shall be made in accordance with 30 CFR 75.1200, as required by MSHA. Upon request, mine maps shall be kept confidential by the Division.

Map Number(s)	Map Title / Description	Confidential?
N/A	Aberdeen Mine	Y
N/A	Pinnacle	Y

OTHER INFORMATION

Please provide any comments or further information to be included as part of the Annual Report. Any other attachments are to be provided as APPENDIX E to this Annual Report. If information is submitted as a group rather than by individual mine. Please identify each of the mines data in the list below.

Additional attachments to this report?



No



Yes

APPENDIX A

Certified Reports

Excess Spoil Piles
Refuse Piles
Impoundments

as required under R645-301-514
Annual Pond Inspection

ANDALEX RESOURCES, INC.
2000 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond "C" **LOCATION:** Centennial

IMPOUNDMENTS	
(1) Stability	Slopes Stable.
(2) Structural Weakness/Erosion	Minor Erosion in Bottom of Pond.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	Damp
(5) Existing Storage Capacity	1.70 acre feet.
(6) Monitoring Procedures	U.P.D.E.S Quarterly Inspection.

SEDIMENT PONDS ONLY	
(7) Sediment Accumulation (Elevation)	7046.0
(8) Sediment Cleanout Level (Elevation)	7046.2
(9) Principle Spillway (Elevation)	7051.9
(10) Emergency Spillway (Elevation)	7053.7
(11) Existing Sediment Capacity (To Cleanout)	0.016 acre feet.

GENERAL	
(12) Comments/Recommendations	Interior Partially Vegetated. No Discharge. Inlets O.K.

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.


(Signature)

11/30/00
(Date)



ANDALEX RESOURCES, INC.
2000 ANNUAL POND INSPECTION REPORT

POND: Sed. Basin "B" **LOCATION:** Centennial

IMPOUNDMENTS	
(1) Stability	Slopes Stable.
(2) Structural Weakness/Erosion	None Noted.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	N/A - Dry.
(5) Existing Storage Capacity	0.594 acre feet.
(6) Monitoring Procedures	Sediment Level. Cleanout at 50% accumulation. (Between 1 and 2)

SEDIMENT PONDS ONLY	
(7) Sediment Accumulation (Elevation)	7077.0 - #2
(8) Sediment Cleanout Level (Elevation)	7081.0 - #2
(9) Principle Spillway (Elevation)	7077.0 - #2
(10) Emergency Spillway (Elevation)	7078.0 - #1
(11) Existing Sediment Capacity (To Cleanout)	0.318 acre feet.

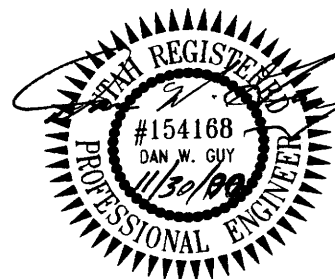
GENERAL	
(12) Comments/Recommendations	Cell B4 - Full Cell B3 - 1' Remaining Cell B2 - 4' Remaining Cell B1 - 0% Sediment - No Change.

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.


(Signature)

11/30/00
(Date)



ANDALEX RESOURCES, INC.
2000 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond "E" **LOCATION:** Centennial

IMPOUNDMENTS	
(1) Stability	Slopes Stable.
(2) Structural Weakness/Erosion	None Noted.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	Damp
(5) Existing Storage Capacity	1.916 acre feet.
(6) Monitoring Procedures	U.P.D.E.S. Quarterly Inspection.

SEDIMENT PONDS ONLY	
(7) Sediment Accumulation (Elevation)	*6946.4
(8) Sediment Cleanout Level (Elevation)	6946.5
(9) Principle Spillway (Elevation)	6957.6
(10) Emergency Spillway (Elevation)	6958.6
(11) Existing Sediment Capacity (To Cleanout)	0.014 acre feet.

* Average Sediment level at this time.

GENERAL	
(12) Comments/Recommendations	Pond approximately 1/3 cleaned. No Discharge. Inlets O.K. Outlets O.K.

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.


(Signature)

11/30/00
(Date)

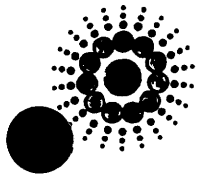


APPENDIX B

Reporting of Technical Data

including monitoring data, reports, maps, and other information
as required under the approved plan
or as required by the Division

in accordance with the requirements of R645-301-130 and R645-301-140.
Quarterly Water Monitoring
Subsidence Monitoring



ANDALEX
RESOURCES, INC.

P.O. BOX 902
PRICE, UTAH 84501
PHONE (435) 637-5385
FAX (435) 637-8860

MEMORANDUM

TO: DOGM, General Inspection File
FROM: Michael W. Glasson *AWG*
DATE: April 21, 2000
SUBJECT: 2000, 1st Quarter Water Monitoring, Minesite

Water Monitoring- 1st Quarter, 2000

7-1	No Flow	03/31/00
8-1	No Flow	03/31/00
12-1	No Flow	03/31/00
17-1	No Flow	03/31/00
17-2	No Flow	03/31/00
S18-1	Sampled	03/31/00
18-2	No Flow	03/31/00
18-3	No Flow	03/31/00
18-4	No Flow	03/31/00
S25-1	Negligible Flow	03/31/00
25-2	No Flow	03/31/00
Well #1	Sampled	03/31/00

cc: Jim Smith, DOGM
File



COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • TEL: 630-953-9300 FAX: 630-953-9306



Member of the SGS Group (Société Générale de Surveillance)

Committed To Excellence

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1020
HUNTINGTON, UT 84528
TEL: (435) 653-2311
FAX: (435) 653-2436

May 5, 2000

ANDALEX RESOURCES
P.O. Box 902
Price UT 84501

Sample identification by
ANADALEX RESOURCES

ID: S18-1

Kind of sample Water
reported to us

RECEIVED 1730
SAMPLED 1400

Sample taken at

FIELD MEASUREMENTS

Flow 10 GPM TEMP 15.1
COND. 2850 pH 7.2

Sample taken by ANDALEX RESOURCES

NOTES:
DIS. METALS
FILTERED @ LAB

Date sampled March 31, 2000

Date received March 31, 2000

No2 pH Settleable Solids Expired Due
To Insufficient Time To Analyze.

Analysis report no. 59-21164

Parameter	Result	MRL	Units	Method	Analized Date/Time/Analyst
Acidity	<10	10	mg/l as CaCO ₃	D1067-92	04-12-2000 1000 SC
Alkalinity, Bicarbonate	867	5	mg/l as HCO ₃	EPA 310.1	04-12-2000 0900 SC
Alkalinity, Carbonate	<5	5	mg/l as CO ₃	EPA 310.1	04-12-2000 0900 SC
Alkalinity, Total	711	5	mg/l as CaCO ₃	EPA 310.1	04-12-2000 0900 SC
Anions	48.0	----	meq/l	-----	05-01-2000 1500 RJ
Arsenic, Total	<0.01	0.01	mg/l	EPA 206.2	05-04-2000 0900 SC
Boron, Total	0.9	0.2	mg/l	EPA 212.3	04-27-2000 1000 RJ
Calcium, Total	106	1	mg/l	EPA 215.1	04-18-2000 1500 MK
Cations	46.1	----	meq/l	-----	05-01-2000 1500 RJ
Chloride	338	1	mg/l	EPA 300.0	05-01-2000 1000 SC
Conductivity	3990	1	umhos/cm	SM2510-B	04-13-2000 0858 RM
Hardness, Total	903	----	mg/l as CaCO ₃	SM2340-B	05-01-2000 1500 RJ
Iron, Total	0.1	0.1	mg/l	EPA 236.1	04-18-2000 0900 MK
Iron, Dissolved	<0.1	0.1	mg/l	EPA 236.1	04-18-2000 0900 MK
Magnesium, Total	155	10	mg/l	EPA 242.1	04-19-2000 1100 SC
Manganese, Total	<0.1	0.1	mg/l	EPA 243.1	04-18-2000 1030 MK
Nitrogen, Ammonia	<0.5	0.5	mg/l as N	EPA 350.3	04-11-2000 0900 SC
Nitrogen, Nitrate-Nitrite	0.54	0.03	mg/l as N	EPA 300.0	04-04-2000 0854 SC
Oil & Grease	<2	2	mg/l	EPA 413.1	04-14-2000 0900 SC
pH	8.30	----	pH units	EPA 150.1	04-03-2000 1430 SC
Potassium, Total	17	1	mg/l	EPA 258.1	04-18-2000 1230 MK
Selenium, Total	<0.01	0.01	mg/l	EPA 270.2	04-30-2000 1100 RJ
Sodium, Total	636	10	mg/l	EPA 273.1	04-18-2000 1330 MK
Solids, Settleable	<0.4	0.4	ml/l	EPA 160.5	04-03-2000 1000 SC

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

R. J. Cormier

Huntington Laboratory

MEMBER
ACIL

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • TEL: 630-953-9300 FAX: 630-953-9306



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P.O. BOX 1020
HUNTINGTON, UT 84528
TEL: (435) 653-2311
FAX: (435) 653-2436

May 5, 2000

ANDALEX RESOURCES
P.O. Box 902
Price UT 84501

Sample identification by
ANADALEX RESOURCES

ID: S18-1

Kind of sample Water
reported to us

RECEIVED 1730
SAMPLED 1400

Sample taken at

FIELD MEASUREMENTS

Flow 10 GPM TEMP 15.1
COND. 2850 pH 7.2

Sample taken by ANDALEX RESOURCES

NOTES:
DIS. METALS
FILTERED @ LAB

Date sampled March 31, 2000

Date received March 31, 2000

No2 pH Settleable Solids Expired Due
To Insufficient Time To Analyze.

Analysis report no. 59-21164

Parameter	Result	MRL	Units	Method	Analyzed		
					Date/Time/Analyst		
Solids, Total Dissolved	2843	10	mg/l	EPA 160.1	04-05-2000 0900	SC	
Solids, Total Suspended	<5	5	mg/l	EPA 160.2	04-05-2000 0900	SC	
Sulfate	1165	1	mg/l	EPA 300.0	04-28-2000 0800	SC	
Cation/Anion Balance	-2.0	----	%		05-01-2000 1500	RJ	

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

R. J. Cornier

Huntington Laboratory



OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES



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FAX: (435) 653-2436

May 5, 2000

ANDALEX RESOURCES
P.O. Box 902
Price UT 84501

Sample identification by
ANADALEX RESOURCES

ID:1ST 1/4 WELL 1

Kind of sample Water
reported to us

RECEIVED 1730
SAMPLED 1400

Sample taken at

FIELD MEASUREMENTS

Depth 61' TEMP 13.2
COND. 1410 pH 7.8

Sample taken by ANDALEX RESOURCES

NOTES:

DIS.METALS

FILTERED @ LAB

Date sampled March 31, 2000

Date received March 31, 2000

No2 pH & Settleable Solids Expired Due
To Insufficient Time To Analyze.

Analysis report no. 59-21163

Parameter	Result	MRL	Units	Method	Analyzed		
					Date/Time/Analyst		
Acidity	30	10	mg/l as CaCO ₃	D1067-92	04-12-2000 1000	SC	
Alkalinity, Bicarbonate	757	5	mg/l as HCO ₃	EPA 310.1	04-12-2000 0900	SC	
Alkalinity, Carbonate	<5	5	mg/l as CO ₃	EPA 310.1	04-12-2000 0900	SC	
Alkalinity, Total	620	5	mg/l as CaCO ₃	EPA 310.1	04-12-2000 0900	SC	
Anions	37.4	----	meq/l	-----	05-01-2000 1500	RJ	
Arsenic, Total	<0.01	0.01	mg/l	EPA 206.2	05-04-2000 0900	SC	
Boron, Total	0.7	0.2	mg/l	EPA 212.3	04-27-2000 1000	RJ	
Calcium, Total	197	1	mg/l	EPA 215.1	04-18-2000 1500	MK	
Cations	36.2	----	meq/l	-----	05-01-2000 1500	RJ	
Chloride	265	3	mg/l	EPA 300.0	05-01-2000 1000	SC	
Conductivity	2950	1	umhos/cm	SM2510-B	04-13-2000 0858	RM	
Hardness, Total	1317	----	mg/l as CaCO ₃	SM2340-B	05-01-2000 1500	RJ	
Iron, Total	7.4	0.2	mg/l	EPA 236.1	04-18-2000 0900	MK	
Iron, Dissolved	0.3	0.1	mg/l	EPA 236.1	04-18-2000 0900	MK	
Magnesium, Total	232	5	mg/l	EPA 242.1	04-19-2000 1100	SC	
Manganese, Total	0.1	0.1	mg/l	EPA 243.1	04-18-2000 1030	MK	
Nitrogen, Ammonia	<0.5	0.5	mg/l as N	EPA 350.3	04-11-2000 0900	SC	
Nitrogen, Nitrate-Nitrite	0.58	0.03	mg/l as N	EPA 300.0	04-04-2000 0854	SC	
Oil & Grease	<2	2	mg/l	EPA 413.1	04-14-2000 0900	SC	
pH	6.98	----	pH units	EPA 150.1	04-03-2000 1430	SC	
Potassium, Total	16	1	mg/l	EPA 258.1	04-18-2000 1230	MK	
Selenium, Total	<0.01	0.01	mg/l	EPA 270.2	04-30-2000 1100	RJ	
Sodium, Total	218	2	mg/l	EPA 273.1	04-18-2000 1330	MK	
Solids, Settleable	<0.4	0.4	ml/l	EPA 160.5	04-03-2000 1000	SC	

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

R. J. Cornely

Huntington Laboratory



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HUNTINGTON, UT 84528

TEL: (435) 653-2311

FAX: (435) 653-2436

May 5, 2000

ANDALEX RESOURCES

P.O. Box 902

Price UT 84501

Sample identification by

ANADALEX RESOURCES

ID:1ST 1/4 WELL 1

Kind of sample Water
reported to us

RECEIVED 1730

SAMPLED 1400

FIELD MEASUREMENTS

Sample taken at

Depth 61'

TEMP 13.2

COND. 1410

pH 7.8

Sample taken by ANDALEX RESOURCES

NOTES:

DIS.METALS

FILTERED @ LAB

Date sampled March 31, 2000

No2 pH & Settleable Solids Expired Due
To Insufficient Time To Analyze.

Date received March 31, 2000

Analysis report no. 59-21163

Parameter	Result	MRL	Units	Method	Analyzed		
					Date/Time/Analyst		
Solids, Total Dissolved	2125	10	mg/l	EPA 160.1	04-05-2000 0900	SC	
Solids, Total Suspended	22	5	mg/l	EPA 160.2	04-05-2000 0900	SC	
Sulfate	841	3	mg/l	EPA 300.0	05-01-2000 1000	SC	
Cation/Anion Balance	-1.6	----	%		05-01-2000 1500	RJ	

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

R. J. Cornie

Huntington Laboratory

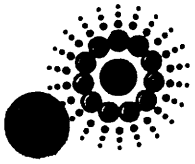
MEMBER
ACIL

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

F-465

Original Watermarked For Your Protection

TERMS AND CONDITIONS ON REVERSE



ANDALEX
RESOURCES, INC.

P.O. BOX 902
PRICE, UTAH 84501
PHONE (435) 637-5385
FAX (435) 637-8860

MEMORANDUM

TO: DOGM, General Inspection File
FROM: Michael W. Glasson *MWG*
DATE: July 26, 2000
SUBJECT: 2000, 2nd Quarter Water Monitoring, Minesite

Water Monitoring- 2nd Quarter, 2000

7-1	No Flow	06/30/00
8-1	No Flow	06/30/00
12-1	No Flow	06/30/00
17-1	No Flow	06/30/00
17-2	No Flow	06/30/00
S18-1	Sampled	06/21/00
18-2	No Flow	06/30/00
18-3	No Flow	06/30/00
18-4	No Flow	06/30/00
S25-1	Negligible Flow	06/30/00
25-2	No Flow	06/30/00
Well #1	Sampled	06/21/00

cc: Jim Smith, DOGM
File

CT&E Analysis Request, Chain of Custody, and Data Collection Form

Identification:

Lab ID	Customer	Sample ID
	ANDALEX	518-1

Sampling:

Sampled By	Date	Time	Notes
MWB	6/21/00	1600	

Chain of Custody:

Relinquished by:	Date	Time	Received by:	Date	Time
MWB	6/21/00	1800			

Field Parameters:

pH	DO	Flow	Cond	Turb.	Temp
7.9	-	10	2160	-	15°C

Operational: Inorganics and Metals

Analyte/ Holding Time	Adjusted MRL	Concentration	Date Analyzed	Time Analyzed	Analyst	Flags
pH						
24 hours						
DO						
24 hours						
Soluble Solids						
2						
Turbidity						
2						
TDS						
7						
TSS						
7						
Acidity						
14						
Alkalinity						
14						
Bicarbonate						
14						
Carbonate						
14						
Chloride						
28						
Conductivity						
28						
Oil & Grease						
28						
Sulfate						
28						
Hardness						
180						
Cations						
180						
Anions						
14						
Balance						
14						
Calcium T						
180 D						
Magnesium T						
180 D						
Iron T						
180 D						
Manganese T						
180 D						
Potassium T						
180 D						
Sodium T						
180 D						

Baseline: Inorganics and Metals (Waste and Drinking)

Analyte/ Holding Time	Adjusted MRL	Concentration	Date Analyzed	Time Analyzed	Analyst	Flags
Nitrite						
2						
Ortho Phos						
2						
Sulfide						
7						
Fluoride						
28						
Ammonia						
28						
Nitrate						
2						
Total phos						
28						
Mercury T						
28 D						
Aluminum T						
180 D						
Arsenic T						
180 D						
Barium T						
180 D						
Boron T						
180 D						
Cadmium T						
180 D						
Chromium T						
180 D						
Copper T						
180 D						
Lead T						
180 D						
Molybden T						
180 D						
Nickel T						
180 D						
Selenium T						
180 D						
Zinc T						
180 D						
Copper- Drinking 180						
Lead- Drinking 180						

Flag Codes:

1 - EPA procedure modified.	4 - Expired when analyzed
2 - Possible matrix interference.	5 - Filtered at lab
3 - Expired when received	

Revision 3/96

Adj. MRL = dilution factor X MRL

: Dissolved Metals filtered at lab

: Dissolved Boron filtered at lab

see attached

Parameters to be Monitored

The sample reports will contain the following information:

1. Date and time of sample
2. Date of analysis
3. Cation - anion balance
4. Distinction for total or dissolved analysis
5. Field parameters
6. Parameter units
7. Sampler's initials or name

All samples will be collected and preserved in accordance with E.P.A. standards. Analysis of all samples will be done (or performed) within allowable holding times as given in the E.P.A. guidelines. (40 CFR 136 and 434)

The following field parameters will be measured on all samples:

1. Flow
2. Field pH
3. Specific Conductivity
4. Field Temperature

The following parameters will be measured of samples taken from the monitoring points during operations:

all

Acidity	Manganese - Total
Alkalinity	Nitrate
Ammonia	Oil & Grease
Bicarbonate	Potassium
Calcium	Sodium
Carbonate	Sulfate
Chloride	TDS
Iron-Dissolved	TSS
Iron-Total	pH
Magnesium	EC
Boron	Arsenic
Selenium	Hardness
Cation-Anion	Settleable Solids

Also, should there ever be a discharge at any UPDES location, field measurements of air and water temperature, pH, and EC will be made, as well as flow.

Further, Andalex will monitor the static water level in Well #1.

CT&E Analysis Request, Chain of Custody, and Data Collection Form

Identification:

Lab ID	Customer	Sample ID
	Andalex	Well #1 2nd 1/4

Sampling:

Sampled By	Date	Time	Notes
MWG	6/21/00	1630	

Chain of Custody:

Relinquished by:	Date	Time	Received by:	Date	Time
MWG	6/21/00	1800			

Field Parameters:

pH	DO	Flow	Cond	Turb.	Temp.
7.1	-	60'	2410	-	13°C

Operational: Inorganics and Metals

Analyte/ Holding Time	Adjusted MRL	Concentration	Date Analyzed	Time Analyzed	Analyst	Flags
pH						
24 hours						
DO						
24 hours						
Soluble Solids						
2						
Turbidity						
2						
TDS						
7						
TSS						
7						
Acidity						
14						
Alkalinity						
14						
Bicarbonate						
14						
Carbonate						
14						
Chloride						
28						
Conductivity						
28						
Oil & Grease						
28						
Sulfate						
28						
Hardness						
180						
Cations						
180						
Anions						
14						
Balance						
14						
Calcium T						
180 D						
Magnesium T						
180 D						
Iron T						
180 D						
Manganese T						
180 D						
Potassium T						
180 D						
Sodium T						
180 D						

Baseline: Inorganics and Metals (Waste and Drinking)

Analyte/ Holding Time	Adjusted MRL	Concentration	Date Analyzed	Time Analyzed	Analyst	Flags
Nitrite						
2						
Ortho Phos						
2						
Sulfide						
2						
Fluoride						
28						
Ammonia						
28						
Nitrate						
2						
Total phos						
28						
Mercury T						
28 D						
Aluminum T						
180 D						
Arsenic T						
180 D						
Barium T						
180 D						
Boron T						
180 D						
Cadmium T						
180 D						
Chromium T						
180 D						
Copper T						
180 D						
Lead T						
180 D						
Molybden T						
180 D						
Nickel T						
180 D						
Selenium T						
180 D						
Zinc T						
180 D						
Copper- Drinking 180						
Lead- Drinking 180						

Flag Codes:

1 - EPA procedure modified	4 - Expired when analyzed
2 - Possible matrix interference	5 - Filtered at lab
3 - Expired when received	

Revision 3/96

Adj. MRL = dilution factor X MRL

_____: Dissolved Metals filtered at lab
 _____: Dissolved Boron filtered at lab

see attached.

Parameters to be Monitored

The sample reports will contain the following information:

1. Date and time of sample
2. Date of analysis
3. Cation - anion balance
4. Distinction for total or dissolved analysis
5. Field parameters
6. Parameter units
7. Sampler's initials or name

All samples will be collected and preserved in accordance with E.P.A. standards. Analysis of all samples will be done (or performed) within allowable holding times as given in the E.P.A. guidelines. (40 CFR 136 and 434)

The following field parameters will be measured on all samples:

1. Flow
2. Field pH
3. Specific Conductivity
4. Field Temperature

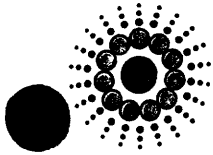
The following parameters will be measured of samples taken from the monitoring points during operations:

all

Acidity	Manganese - Total
Alkalinity	Nitrate
Ammonia	Oil & Grease
Bicarbonate	Potassium
Calcium	Sodium
Carbonate	Sulfate
Chloride	TDS
Iron-Dissolved	TSS
Iron-Total	pH
Magnesium	EC
Boron	Arsenic
Selenium	Hardness
Cation-Anion	Settleable Solids

Also, should there ever be a discharge at any UPDES location, field measurements of air and water temperature, pH, and EC will be made, as well as flow.

Further, Andalex will monitor the static water level in Well #1.



ANDALEX
RESOURCES, INC.

P.O. BOX 902
PRICE, UTAH 84501
PHONE (435) 637-5385
FAX (435) 637-8860

MEMORANDUM

TO: DOGM, General Inspection File
FROM: Michael W. Glasson *MWG*
DATE: December 4, 2000
SUBJECT: 2000, 3rd Quarter Water Monitoring, Minesite

Water Monitoring- 3rd Quarter, 2000

7-1	No Flow	09/29/00
8-1	No Flow	09/29/00
12-1	No Flow	09/29/00
17-1	No Flow	09/29/00
17-2	No Flow	09/29/00
S18-1	Sampled	08/18/00
18-2	No Flow	09/29/00
18-3	No Flow	09/29/00
18-4	No Flow	09/29/00
S25-1	Negligible Flow	09/29/00
25-2	No Flow	06/30/00
Well #1	Sampled	09/30/00

cc: Jim Smith, DOGM
File

COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • TEL: 630-953-9300 FAX: 630-953-9306

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P.O. BOX 1020

HUNTINGTON, UT 84528

TEL: (435) 653-2311

FAX: (435) 653-2436

November 2, 2000

ANDALEX RESOURCES

P.O. Box 902

Price UT 84501

Sample identification by
ANADALEX RESOURCES

ID: S18-1

RECEIVED 1800

SAMPLED 1500

FIELD MEASUREMENTS

FLOW 10 TEMP 15

COND. 2240 pH 7.9

NOTES:

DIS. METALS

FILTERED @ LAB

POSS. MATRIX INTERFER. ON TOTAL

ARSENIC AND TOTAL SELENIUM.

AMENDED REPORT FOR DATA ENTRY ERROR

FOR BORON TOTAL.

Kind of sample Water
reported to us

Sample taken at ANDALEX

Sample taken by ANDALEX

Date sampled August 18, 2000

Date received August 24, 2000

Analysis report no. 59-21772

Parameter	Result	MRL	Units	Method	Analyzed		
					Date/Time/Analyst		
Hardness	<10	10	mg/l as CaCO ₃	D1067-92	08-31-2000 1300	AW	
Alkalinity, Bicarbonate	896	5	mg/l as HCO ₃	EPA 310.1	09-01-2000 0820	AW	
Alkalinity, Carbonate	66	5	mg/l as CO ₃	EPA 310.1	09-01-2000 0820	AW	
Alkalinity, Total	845	5	mg/l as CaCO ₃	EPA 310.1	09-01-2000 0820	AW	
Anions	41.1	----	meq/l	-----	09-12-2000 1600	RJ	
Arsenic, Total	<0.01	0.01	mg/l	EPA 206.2	09-12-2000 0730	MK	
Boron, Total	1.0	0.1	mg/l	EPA 212.3	09-25-2000 0700	SC	
Calcium, Total	24	1	mg/l	EPA 215.1	09-07-2000 0615	MK	
Cations	44.2	----	meq/l	-----	09-12-2000 1600	RJ	
Chloride	181	6	mg/l	EPA 300.0	08-25-2000 1145	RJ	
Conductivity	3810	1	umhos/cm	SM2510-B	09-05-2000 1215	AW	
Hardness, Total	344	----	mg/l as CaCO ₃	SM2340-B	09-12-2000 1600	RJ	
Iron, Total	0.3	0.1	mg/l	EPA 236.1	09-06-2000 0600	MK	
Iron, Dissolved	<0.1	0.1	mg/l	EPA 236.1	09-06-2000 0600	MK	
Magnesium, Total	69	1	mg/l	EPA 242.1	09-07-2000 0700	MK	
Nitrogen, Ammonia	<0.5	0.5	mg/l as N	EPA 350.3	09-13-2000 0800	SC	
Nitrogen, Nitrate-Nitrite	0.92	0.03	mg/l as N	EPA 300.0	08-25-2000 1145	RJ	
Oil & Grease	<2	2	mg/l	EPA 413.1	08-29-2000 0900	SC	
pH	8.75	----	pH units	EPA 150.1	08-25-2000 1130	AW	
Potassium, Total	23	1	mg/l	EPA 258.1	09-06-2000 0900	MK	
Selenium, Total	<0.01	0.01	mg/l	EPA 270.2	10-23-2000 0900	MK	
Sodium, Total	844	1	mg/l	EPA 273.1	09-06-2000 1030	MK	
Solids, Settleable	<0.4	0.4	ml/l	EPA 160.5	08-25-2000 1145	RJ	
Solids, Total Dissolved	2632	10	mg/l	EPA 160.1	08-30-2000 1000	AW	

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

R. J. Cormier

Huntington Laboratory

MEMBER
ACIL

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

F-465

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TERMS AND CONDITIONS ON REVERSE

COMMERCIAL TESTING & ENGINEERING CO.

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1908



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ADDRESS ALL CORRESPONDENCE TO:

P.O. BOX 1020

HUNTINGTON, UT 84528

TEL: (435) 653-2311

FAX: (435) 653-2436

November 2, 2000

ANDALEX RESOURCES

P.O. Box 902

Price UT 84501

Sample identification by
ANADALEX RESOURCES

ID: S18-1

RECEIVED 1800

SAMPLED 1500

FIELD MEASUREMENTS

FLOW 10

TEMP 15

COND. 2240

pH 7.9

NOTES:

DIS. METALS

FILTERED @ LAB

POSS. MATRIX INTERFER. ON TOTAL

ARSENIC AND TOTAL SELENIUM.

AMMENDED REPORT FOR DATA ENTRY ERROR

FOR BORON TOTAL.

Kind of sample Water
reported to us

Sample taken at ANDALEX

Sample taken by ANDALEX

Date sampled August 18, 2000

Date received August 24, 2000

Analysis report no. 59-21772

Parameter	Result	MRL	Units	Method	Analyzed		
					Date/Time/Analyst		
Solids, Total Suspended	6	5	mg/l	EPA 160.2	08-30-2000 1000	SC	
Sulfate	918	6	mg/l	EPA 300.0	08-25-2000 1145	RJ	
Cation/Anion Balance	3.6	----	%		09-12-2000 1600	RJ	

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Rj Cormier

Huntington Laboratory

MEMBER
ACIL

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

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TERMS AND CONDITIONS ON REVERSE

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P.O. BOX 1020

HUNTINGTON, UT 84528

TEL: (435) 653-2311

FAX: (435) 653-2436

November 6, 2000

ANDALEX RESOURCES

P.O. Box 902

Price UT 84501

Sample identification by
ANADALEX RESOURCES

ID:WELL 1 3/4

RECEIVED 0700

SAMPLED 1200

FIELD MEASUREMENTS

DEPTH 60' TEMP 13

COND. 2060 pH 7.5

NOTES:

DIS.METALS

FILTERED @ LAB

PH, SETTLEABLE SOLIDS, AND NITRATE

EXPIRED WHEN RECEIVED.

POSS. MATRIX INTERFER. ON ARSENIC.

Kind of sample Water
reported to us

Sample taken at

Sample taken by ANDALEX RESOURCES

Date sampled September 30, 2000

Date received October 5, 2000

Analysis report no. 59-21991

Parameter	Result	MRL	Units	Method	Analyzed		
					Date/Time/Analyst		
Hardness	47	10	mg/l as CaCO ₃	D1067-92	10-09-2000 1530	RJ	
Alkalinity, Bicarbonate	836	5	mg/l as HCO ₃	EPA 310.1	10-05-2000 1400	AW	
Alkalinity, Carbonate	<5	5	mg/l as CO ₃	EPA 310.1	10-05-2000 1400	AW	
Alkalinity, Total	686	5	mg/l as CaCO ₃	EPA 310.1	10-05-2000 1445	AW	
Anions	43.9	----	meq/l	-----	10-18-2000 1400	RJ	
Arsenic, Total	<0.01	0.01	mg/l	EPA 206.2	11-01-2000 0615	MK	
Boron, Total	0.7	0.1	mg/l	EPA 212.3	10-31-2000 1300	SC	
Calcium, Total	221	5	mg/l	EPA 215.1	10-16-2000 1515	MK	
Cations	43.0	----	meq/l	-----	10-18-2000 1400	RJ	
Chloride	397	10	mg/l	EPA 300.0	10-18-2000 0859	SC	
Conductivity	3390	1	umhos/cm	SM2510-B	10-13-2000 0840	AW	
Hardness, Total	1585	----	mg/l as CaCO ₃	SM2340-B	10-18-2000 1400	RJ	
Iron, Total	12.5	0.5	mg/l	EPA 236.1	10-16-2000 0930	MK	
Iron, Dissolved	1.2	0.1	mg/l	EPA 236.1	10-16-2000 0930	MK	
Magnesium, Total	251	5	mg/l	EPA 242.1	10-17-2000 0900	MK	
Manganese, Total	0.1	0.1	mg/l	EPA 243.1	10-16-2000 1100	MK	
Nitrogen, Ammonia	<0.5	0.5	mg/l as N	EPA 350.3	10-24-2000 0810	SC	
Nitrogen, Nitrate-Nitrite	0.17	0.03	mg/l as N	EPA 300.0	10-05-2000 1005	SC	
Oil & Grease	<2	2	mg/l	EPA 413.1	10-06-2000 0935	SC	
pH	6.88	----	pH units	EPA 150.1	10-05-2000 1300	AW	
Potassium, Total	21	1	mg/l	EPA 258.1	10-16-2000 1300	MK	
Selenium, Total	<0.01	0.01	mg/l	EPA 270.2	10-31-2000 0845	MK	
Sodium, Total	249	5	mg/l	EPA 273.1	10-16-2000 1400	MK	
Solids, Settleable	<0.4	0.4	ml/l	EPA 160.5	10-05-2000 1530	SC	

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

R. J. Cornie

Huntington Laboratory

MEMBER
ACIL

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

COMMERCIAL TESTING & ENGINEERING CO.

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ADDRESS ALL CORRESPONDENCE TO:

P.O. BOX 1020
HUNTINGTON, UT 84528
TEL: (435) 653-2311
FAX: (435) 653-2436

November 6, 2000

ANDALEX RESOURCES
P.O. Box 902
Price UT 84501

Sample identification by
ANADALEX RESOURCES

ID:WELL 1 3/4

RECEIVED 0700

SAMPLED 1200

FIELD MEASUREMENTS

DEPTH 60' TEMP 13

COND. 2060 pH 7.5

NOTES:

DIS.METALS

FILTERED @ LAB

PH, SETTLEABLE SOLIDS, AND NITRATE

EXPIRED WHEN RECEIVED.

POSS. MATRIX INTERFER. ON ARSENIC.

Kind of sample Water
reported to us

Sample taken at

Sample taken by ANDALEX RESOURCES

Date sampled September 30, 2000

Date received October 5, 2000

Analysis report no. 59-21991

Parameter	Result	MRL	Units	Method	Analyzed		
					Date/Time/Analyst		
Solids, Total Dissolved	251	10	mg/l	EPA 160.1	10-05-2000 1500	AW	
Solids, Total Suspended	28	5	mg/l	EPA 160.2	10-05-2000 1500	AW	
Sulfate	912	10	mg/l	EPA 300.0	10-18-2000 0859	SC	
Cation/Anion Balance	-0.9	----	%		10-18-2000 1400	RJ	

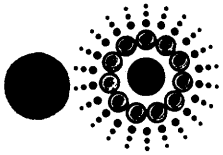
Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Rf Cormier

Huntington Laboratory

MEMBER
ACIL

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES



ANDALEX
RESOURCES, INC.
Tower Division

P.O. BOX 902
PRICE, UTAH 84501
PHONE (801) 637-5385
TELECOPIER (801) 637-8860

MEMORANDUM

TO: DOGM, General Inspection File
FROM: Michael W. Glasson *MWG*
DATE: March 23, 2001
SUBJECT: 2000, 4th Quarter Water Monitoring, Minesite

Water Monitoring- 4th Quarter, 2000

7-1	No Flow	12/29/00
8-1	No Flow	12/29/00
12-1	No Flow	12/29/00
17-1	No Flow	12/29/00
17-2	No Flow	12/29/00
S18-1	Sampled	12/29/00
18-2	No Flow	12/29/00
18-3	No Flow	12/29/00
18-4	No Flow	12/29/00
S25-1	Negligible Flow	12/29/00
25-2	No Flow	12/29/00
Well #1	Sampled	12/29/00

cc: Jim Smith, DOGM
File

COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • TEL: 630-953-9300 FAX: 630-953-9306



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ADDRESS ALL CORRESPONDENCE TO:

P.O. BOX 1020

HUNTINGTON, UT 84528

TEL: (435) 653-2311

FAX: (435) 653-2436

February 6, 2001

ANDALEX RESOURCES

P.O. Box 902

Price UT 84501

Sample identification by
ANADALEX RESOURCES

ID:WELL 1

RECEIVED 1800

SAMPLED 0900

FIELD MEASUREMENTS

DEPTH 60' TEMP 16.9

COND. 2600

pH 6.5

NOTES:

DIS.METALS

FILTERED @ LAB

ACIDITY EXPIRED WHEN ANALYZED.

NITRATE, PH, AND SETTLEABLE SOLIDS
EXPIRED DUE TO INSUFFICIENT TIME TO
ANALYZE.

Kind of sample Water
reported to us

Sample taken at

Sample taken by ANDALEX RESOURCES

Date sampled December 29, 2000

Date received December 29, 2000

Analysis report no. 59-22309

Parameter	Result	MRL	Units	Method	Analyzed		
					Date/Time/Analyst		
Acidity	26	10	mg/l as CaCO ₃	D1067-92	01-15-2001 1000	SC	
Alkalinity, Bicarbonate	867	5	mg/l as HCO ₃	EPA 310.1	01-05-2001 0900	AW	
Alkalinity, Carbonate	<5	5	mg/l as CO ₃	EPA 310.1	01-05-2001 0900	AW	
Alkalinity, Total	710	5	mg/l as CaCO ₃	EPA 310.1	01-05-2001 0900	AW	
Anions	45.5	----	meq/l	-----	01-23-2001 1330	MK	
Arsenic, Total	<0.01	0.01	mg/l	EPA 206.2	01-19-2001 0900	SC	
Boron, Total	0.8	0.1	mg/l	EPA 212.3	01-29-2001 0800	SC	
Calcium, Total	204	5	mg/l	EPA 215.1	01-05-2001 0715	MK	
Cations	39.5	----	meq/l	-----	01-23-2001 1330	MK	
Chloride	449	5	mg/l	EPA 300.0	01-03-2001 1146	SC	
Conductivity	3490	1	umhos/cm	SM2510-B	01-02-2001 1230	AW	
Hardness, Total	1461	----	mg/l as CaCO ₃	SM2340-B	01-23-2001 1330	MK	
Iron, Total	5.8	0.5	mg/l	EPA 236.1	01-05-2001 0215	MK	
Iron, Dissolved	0.5	0.1	mg/l	EPA 236.1	01-05-2001 0215	MK	
Magnesium, Total	231	5	mg/l	EPA 242.1	01-05-2001 0815	MK	
Manganese, Total	0.1	0.1	mg/l	EPA 243.1	01-05-2001 0345	MK	
Nitrogen, Ammonia	<0.5	0.5	mg/l as N	EPA 350.3	01-05-2001 0900	SC	
Nitrogen, Nitrate-Nitrite	0.19	0.03	mg/l as N	EPA 300.0	01-03-2001 0927	SC	
Oil & Grease	<2	2	mg/l	EPA 413.1	01-03-2001 0900	SC	
pH	7.08	----	pH units	EPA 150.1	01-04-2001 0900	AW	
Potassium, Total	20	1	mg/l	EPA 258.1	01-05-2001 0500	MK	
Selenium, Total	<0.01	0.01	mg/l	EPA 270.2	01-18-2001 0800	SC	
Sodium, Total	225	5	mg/l	EPA 273.1	01-05-2001 0545	MK	
Solids, Settleable	<0.4	0.4	ml/l	EPA 160.5	01-03-2001 1025	AW	

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Zeke Jurew
Huntington Laboratory

MEMBER
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ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1020
HUNTINGTON, UT 84528
TEL: (435) 653-2311
FAX: (435) 653-2436

February 6, 2001

ANDALEX RESOURCES
P.O. Box 902
Price UT 84501

Sample identification by
ANADALEX RESOURCES

ID: WELL 1
RECEIVED 1800
SAMPLED 0900

FIELD MEASUREMENTS

DEPTH 60' TEMP 16.9
COND. 2600 pH 6.5

NOTES:

DIS. METALS

FILTERED @ LAB

ACIDITY EXPIRED WHEN ANALYZED.

NITRATE, PH, AND SETTLEABLE SOLIDS

EXPIRED DUE TO INSUFFICIENT TIME TO
ANALYZE.

Kind of sample Water
reported to us

Sample taken at

Sample taken by ANDALEX RESOURCES

Date sampled December 29, 2000

Date received December 29, 2000

Analysis report no. 59-22309

Parameter	Result	MRL	Units	Method	Analyzed	
					Date/Time/Analyst	
Solids, Total Dissolved	2543	10	mg/l	EPA 160.1	01-01-2001 1000	AW
Solids, Total Suspended	91	5	mg/l	EPA 160.2	01-04-2001 1000	AW
Sulfate	893	5	mg/l	EPA 300.0	01-03-2001 1146	SC
Cation/Anion Balance	-7.0	----	%		01-23-2001 1330	MK

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

John Jones
Huntington Laboratory

MEMBER
ACIL

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

COMMERCIAL TESTING & ENGINEERING CO.

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Member of the SGS Group (Société Générale de Surveillance)

Committed To Excellence

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1020
HUNTINGTON, UT 84528
TEL: (435) 653-2311
FAX: (435) 653-2436

February 6, 2001

ANDALEX RESOURCES
P.O. Box 902
Price UT 84501

Sample identification by ANADALEX RESOURCES

ID: S18-1

RECEIVED 1800

SAMPLED 0900

FIELD MEASUREMENTS

FLOW 5 GPM

TEMP 14.3

COND. 2400

pH 8.5

NOTES:

DIS.METALS

FILTERED @ LAB

ACIDITY EXPIRED WHEN ANALYZED.

NITRATE, PH, AND SETTLEABLE SOLIDS

EXPIRED DUE TO INSUFFICIENT TIME TO
ANALYZE.

Kind of sample Water
reported to us

Sample taken at

Sample taken by ANDALEX RESOURCES

Date sampled December 29, 2000

Date received December 29, 2000

Analysis report no. 59-22310

Parameter	Result	MRL	Units	Method	Analyzed		
					Date/Time/Analyst		
Acidity	<10	10	mg/l as CaCO ₃	D1067-92	01-15-2001 1000	SC	
Alkalinity, Bicarbonate	1178	5	mg/l as HCO ₃	EPA 310.1	01-05-2001 0900	AW	
Alkalinity, Carbonate	<5	5	mg/l as CO ₃	EPA 310.1	01-05-2001 0900	AW	
Alkalinity, Total	966	5	mg/l as CaCO ₃	EPA 310.1	01-05-2001 0900	AW	
Anions	43.2	----	meq/l	-----	01-23-2001 1330	MK	
Arsenic, Total	<0.01	0.01	mg/l	EPA 206.2	01-19-2001 0900	SC	
Boron, Total	1.0	0.1	mg/l	EPA 212.3	01-29-2001 0800	SC	
Calcium, Total	32	1	mg/l	EPA 215.1	01-05-2001 0715	MK	
Cations	43.3	----	meq/l	-----	01-23-2001 1330	MK	
Chloride	160	5	mg/l	EPA 300.0	01-03-2001 1146	SC	
Conductivity	3670	1	umhos/cm	SM2510-B	01-02-2001 1230	AW	
Hardness, Total	339	----	mg/l as CaCO ₃	SM2340-B	01-23-2001 1330	MK	
Iron, Total	0.5	0.1	mg/l	EPA 236.1	01-05-2001 0215	MK	
Iron, Dissolved	<0.1	0.1	mg/l	EPA 236.1	01-05-2001 0215	MK	
Magnesium, Total	63	1	mg/l	EPA 242.1	01-05-2001 0815	MK	
Manganese, Total	<0.1	0.1	mg/l	EPA 243.1	01-05-2001 0345	MK	
Nitrogen, Ammonia	<0.5	0.5	mg/l as N	EPA 350.3	01-05-2001 0900	SC	
Nitrogen, Nitrate-Nitrite	1.12	0.03	mg/l as N	EPA 300.0	01-03-2001 0927	SC	
Oil & Grease	<2	2	mg/l	EPA 413.1	01-03-2001 0900	SC	
pH	8.60	----	pH units	EPA 150.1	01-04-2001 0900	AW	
Potassium, Total	23	1	mg/l	EPA 258.1	01-05-2001 0500	MK	
Selenium, Total	<0.01	0.01	mg/l	EPA 270.2	01-18-2001 0800	SC	
Sodium, Total	827	10	mg/l	EPA 273.1	01-05-2001 0545	MK	
Solids, Settleable	<0.4	0.4	ml/l	EPA 160.5	01-03-2001 1025	AW	

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

John J. Jones

Huntington Laboratory

MEMBER
ACIL

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES



COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • TEL: 630-953-9300 FAX: 630-953-9306



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ID: S18-1

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pH 8.5

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EXPIRED DUE TO INSUFFICIENT TIME TO
ANALYZE.

Kind of sample Water
reported to us

Sample taken at

Sample taken by ANDALEX RESOURCES

Date sampled December 29, 2000

Date received December 29, 2000

Analysis report no. 59-22310

Parameter	Result	MRL	Units	Method	Analyzed		
					Date/Time/Analyst		
Solids, Total Dissolved	2489	10	mg/l	EPA 160.1	01-01-2001 1000	AW	
Solids, Total Suspended	5	5	mg/l	EPA 160.2	01-04-2001 1000	AW	
Sulfate	929	5	mg/l	EPA 300.0	01-03-2001 1146	SC	
Cation/Anion Balance	0.2	----	%		01-23-2001 1330	MK	

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Zeke Jarvis

Huntington Laboratory



OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

Bruce T. S. Ware
REGISTERED LAND SURVEYOR
RT. 1, BOX 146 H-2 HELPER, UTAH 84526
Phone 637-2620 Sept. 18, 2000

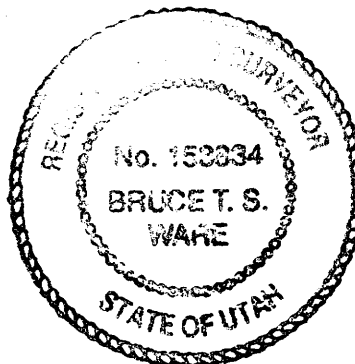
Andalex Resources, Inc.
Attn: Mike Glasson
P. O. Box 902
Price, UT 84501

Dear Mr. Glasson,

As you requested I surveyed to your Companie's Subsidence Monitoring Points. I have calculated the survey and find that there has been no monvment horizontally or vertically since they were established. A visual inspection was made when walking between Subsidence points and no subsidence was seen.

Sincerely,

Bruce T. S. Ware



Bruce T. S. Ware
REGISTERED LAND SURVEYOR
RT. 1, BOX 146 H-2 HELPER, UTAH 84526
Phone 637-2620 Sept. 18, 2000

Andalex Resources Inc.
Attn: Mike Glasson
P. O. Box 902
Price, UT 84501

Dear Mr. Glasson,

The following is a list of the Subsidence points I surveyed;

Station	Northing	Easting	Elevation
Rebar on Ridge	505,141.92	2,217,261.07	8,241.62 Control
Yellow Rebar	507,073.59	2,223,128.18	8,534.90 Control
S-10	507,824.28	2,217,196.61	8,594.59 Control
1A	504,057.70	2,216,581.00	8,147.14
1	502,940.78	2,216,279.03	8,178.24
4	503,238.46	2,221,322.17	8,285.04
11	498,939.01	2,218,688.77	7,671.24
9	506,252.93	2,221,663.41	8,544.06
5	504,194.73	2,224,746.81	8,001.92
7	502,013.43	2,225,963.93	8,103.06
13	500,747.10	2,228,007.65	7,854.71
S31	506,353.15	2,217,377.03	8,386.82
S30	506,015.19	2,215,358.03	8,118.13
S16	508,650.51	2,210,725.76	8,809.50
S17	508,190.50	2,213,802.72	8,624.44
99-1	508,942.00	2,215,064.10	8,572.32
99-2	509,023.22	2,218,625.07	8,551.25

Sincerely

Bruce T. S. Ware

SEDIMENTATION POND

Inspection Report

Pond B

Date:	April 21, 2000
Inlet & Outlet Conditions:	All OK
Erosion Problems:	None Observed
Embankment Stability:	Embankments all stable
Water Level:	0
Weather Conditions:	Clear cool
Additional Comments:	
Time of Inspection:	1330
Person Conducting Inspection:	Michael W. Adams

SEDIMENTATION POND
Inspection Report
Pond C

Date:	4/21/00
Inlet & Outlet Conditions:	All appear ok
Erosion Problems:	None observed
Embankment Stability:	Embankments are stable
Water Level:	0-6"
Weather Conditions:	cool, clear
Additional Comments:	
Time of Inspection:	1:30 p.m.
Person Conducting Inspection:	Michelle W. Hearn

SEDIMENTATION POND

Inspection Report

Pond E

Date:	4/21/00
Inlet & Outlet Conditions:	All OK
Erosion Problems:	None observed
Embankment Stability:	Embankments are stable
Water Level:	e
Weather Conditions:	clear, cool
Additional Comments:	Accrue this year (season)
Time of Inspection:	1330.
Person Conducting Inspection:	Michael O'Brien

2nd 1/4, 2000

SEDIMENTATION POND Inspection Report Pond B

Date: 6/28/00

Inlet & Outlet Conditions:

All inlets and outlets are good

Erosion Problems:

None observed

Embankment Stability:

All stable

Water Level:

0

Weather Conditions:

Hot, sunny

Additional Comments:

Time of Inspection:

1300

Person Conducting Inspection:

Michael W. Blanton

SEDIMENTATION POND Inspection Report Pond C

Date: 6/28/00

Inlet & Outlet Conditions:

All inlets and outlets are OK

Erosion Problems:

None observed

Embankment Stability:

Stable

Water Level:

0

Weather Conditions:

Hot, sunny

Additional Comments:

Time of Inspection:

1300

Person Conducting Inspection:

Michael W. Bann

SEDIMENTATION POND

Inspection Report

Pond E

Date: 6/28/00

Inlet & Outlet Conditions:

repair NE inlet. All others OK

Erosion Problems:

None observed

Embankment Stability:

Stable

Water Level:

0

Weather Conditions:

Sunny, Hot

Additional Comments:

Needs cleaning soon
\$ is budgeted for this fall.

Time of Inspection:

1300

Person Conducting Inspection:

Michael W. Blanton

3rd Qtr., 2000
SEDIMENTATION POND
Inspection Report
Pond B

Date:	9/29/00
Inlet & Outlet Conditions:	All OK
Erosion Problems:	None observed
Embankment Stability:	All stable
Water Level:	0
Weather Conditions:	clear, warm
Additional Comments:	
Time of Inspection:	1300
Person Conducting Inspection:	Michael W. Glanville

SEDIMENTATION POND
Inspection Report
Pond C

Date:	9/29/00
Inlet & Outlet Conditions:	All ok
Erosion Problems:	None Observed
Embankment Stability:	All stable
Water Level:	~ 6" in bottom
Weather Conditions:	clear, warm
Additional Comments:	
Time of Inspection:	1300
Person Conducting Inspection:	Michael W. Dean

SEDIMENTATION POND
Inspection Report
Pond E

Date:	9/29/00
Inlet & Outlet Conditions:	All OK
Erosion Problems:	None observed
Embankment Stability:	All stable
Water Level:	0
Weather Conditions:	Clear, warm
Additional Comments:	At max sed. level
	Time to clean
Time of Inspection:	1300
Person Conducting Inspection:	Michael W. Hanson

SEDIMENTATION POND
Inspection Report
Pond B

PH 3/29/01

Date:	12/29/00 ~ PH 3/29/01
Inlet & Outlet Conditions:	All OK
Erosion Problems:	None Observed
Embankment Stability:	Stable
Water Level:	0
Weather Conditions:	Clear, Cool
Additional Comments:	
Time of Inspection:	1300
Person Conducting Inspection:	Michael W. Blanton

SEDIMENTATION POND
Inspection Report
Pond C

Date:	12/29/00 - 9th 3/29/01
Inlet & Outlet Conditions:	All OK
Erosion Problems:	None observed
Embankment Stability:	Stable
Water Level:	0
Weather Conditions:	Clear, Cool
Additional Comments:	
Time of Inspection:	1300
Person Conducting Inspection:	Michael W. Gann

SEDIMENTATION POND
Inspection Report
Pond E

Date:	12/29/00
Inlet & Outlet Conditions:	NE inlet needs repair following cleaning. This will be done in the spring
Erosion Problems:	None observed
Embankment Stability:	Stable
Water Level:	0
Weather Conditions:	Clear, Cool
Additional Comments:	Pond is cleaned out, should be good for LOM
Time of Inspection:	1300
Person Conducting Inspection:	Michael W. Egan

APPENDIX C

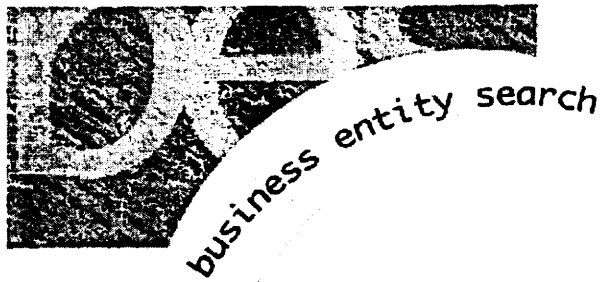
Legal, Financial, Compliance and Related Information

Annual Report of Officers

as submitted to the Utah Department of Commerce

and other changes in ownership and control information
as required under R645-301-110.

Annual Report Included

**Utah Department of
Commerce**return to business
entity search

Name	Type	City
ANDALEX RESOURCES, INC.	Corporation	SANDY UT

Business Name: ANDALEX RESOURCES, INC.**License Number:** 713546-0143**Registration Date:** 3/1/1979**State of Origin:** DE**Address**

45 W 10000 S STE 401

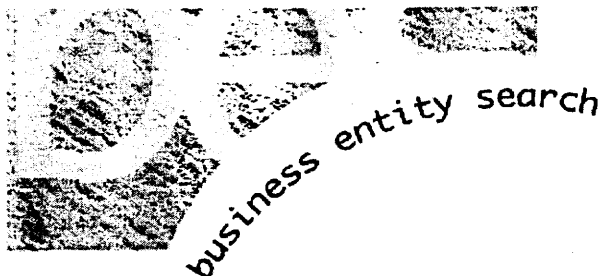
SANDY UT 84070

Status**Status:** Active**Status Description:** Good Standing**This Status Date:****Last Renewed:** 2/13/2001**License Type:** Corporation - Foreign - Profit**Expiration Date:** 3/1/2002**Registered Agent****Registered Agent:** JOHN S KIRKHAM**Address Line 1:** 201 S MAIN ST STE 1100**Address Line 2:****City:** SALT LAKE CITY**State:** UT**Zip:** 84111**Additional Information**

SIC Code:	1222
SIC Title:	1222-BITUMINOUS COAL?
Stock Class 1 Amount:	0000002000
Stock Class 1 Type:	COMMON

If you would like to purchase a Certificate of Existence for this business entity, select the button below. You will be assessed a \$11.50 fee for this

Select the Principals button to get information on the principal individuals associated with this e

**Utah Department of
Commerce**return to business
entity search

Name	Type	City
ANDALEX RESOURCES, INC.	Corporation	SANDY UT

Principal Information

Position	Name	Address	City	State
Director	DOUGLAS H SMITH	45 W 10000 S STE 401	SANDY	UT 84070
Director	PETER B GREEN	45 W 10000 S STE 401	SANDY	UT 84070
Director	RONALD C BEEDIE	45 W 10000 S STE 401	SANDY	UT 84070
President	DOUGLAS H SMITH	45 W 10000 S STE 401	SANDY	UT 84070
Registered Agent	JOHN S KIRKHAM	201 S MAIN ST STE 1100	SALT LAKE CITY	UT 84111
Secretary	JOHN BRADSHAW	45 W 10000S STE 401	SANDY	UT 84070
Vice President	SAMUEL C QUIGLEY	45 W 10000S STE 401	SANDY	UT 84070

Cancel

Do Another

APPENDIX D

Mine Maps

as required under R645-301-525.270.

Pinnacle Mine Map

Aberdeen Mine Map

APPENDIX E

Other Information

in accordance with the requirements of R645-301 and R645-302.
None